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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEB 11 2004

Application of: Jay M. Short

Confirmation No.: 5334

Serial No.: 09/375,605

Filed: August 17, 1999

For: Production of Enzymes Having Desired Activities by Mutagenesis

Examiner: Nashaat T. Nashed

Group Art Unit: 1652

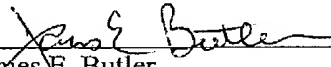
Atty Docket No: 1140-2

OFFICIAL

FACSIMILE TRANSMISSION COVER SHEET

Certificate of Transmission Under 37 C.F.R. 1.8

I hereby certify that the following listed correspondence in the above referenced application is being transmitted by facsimile to the Commissioner for Patents, Washington DC to telephone number (703) 872-9306 on this 11th day of February, 2004.


James E. Butler
Reg. No. 40,931

Document	No. of Pages
Request for Continued Examination (RCE) Transmittal (PTO/SB/30)	1
Fee Transmittal Form (PTO/SB/17) and copy	2
Response Under 37 CFR 1.111 with Request for Extension of Time	12
Total Number of Pages Transmitted (including this page)	16

Note: Each paper must have its own certificate of transmission, or this certificate must identify each paper submitted.

PTO/SB/30 (09-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**Request
for
Continued Examination (RCE)
Transmittal**

Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	09/375,605
Filing Date	August 17, 1999
First Named Inventor	Short
Art Unit	1652
Examiner Name	Nashed
Attorney Docket Number	1140-2

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. **Submission required under 37 CFR 1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

a. ☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

i. ☐ Consider the arguments in the Appeal Brief or Rely Brief previously filed on _____

ii. ☐ Other _____

b. ☒ Enclosed

i. ☒ Amendment/Reply

iii. ☐ Information Disclosure Statement (IDS)

ii. ☐ Affidavit(s)/ Declaration(s)

iv. ☐ Other _____

2. **Miscellaneous**

a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(f) required)

b. ☐ Other _____

3. **Fees**

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

The Director is hereby authorized to charge the following fees, or credit any overpayments, to

a. ☒ Deposit Account No. 50-0661

i. ☒ RCE fee required under 37 CFR 1.17(e)

ii. ☒ Extension of time fee (37 CFR 1.136 and 1.17)

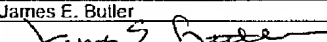
iii. ☐ Other _____

b. ☐ Check in the amount of \$ _____ enclosed

c. ☐ Payment by credit card (Form PTO-2038 enclosed)


WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Name (Print/Type)	James E. Butler	Registration No. (Attorney/Agent)	40,931
Signature		Date	2/11/2004

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Name (Print/Type)	James E. Butler	Date	2/11/2004
Signature			

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (10-03)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 860.00)

Complete if Known

Application Number 09/375,605

Filing Date August 17, 1999

First Named Inventor Short

Examiner Name Nashed

Art Unit 1652

Attorney Docket No. 1140-2

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:

Deposit Account Number 50-0661

Deposit Account Name Diversa Corporation

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	

SUBTOTAL (1) (\$)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20** =	X	
Multiple Dependent	-3** =	X	

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Small Entity

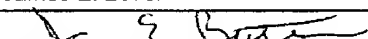
Fee Code (\$)	Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65		Surcharge - late filing fee or oath	
1052 50	2052 25		Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130		Non-English specification	
1812 2,520	1812 2,520		For filing a request for <i>ex parte</i> reexamination	
1804 920*	1804 920*		Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*		Requesting publication of SIR after Examiner action	
1251 110	2251 55		Extension for reply within first month	
1252 420	2252 210		Extension for reply within second month	
1253 950	2253 475		Extension for reply within third month	475
1254 1,480	2254 740		Extension for reply within fourth month	
1255 2,010	2255 1,005		Extension for reply within fifth month	
1401 330	2401 165		Notice of Appeal	
1402 330	2402 165		Filing a brief in support of an appeal	
1403 290	2403 145		Request for oral hearing	
1451 1,510	1451 1,510		Petition to institute a public use proceeding	
1452 110	2452 55		Petition to revive - unavoidable	
1453 1,330	2453 665		Petition to revive - unintentional	
1501 1,330	2501 665		Utility issue fee (or reissue)	
1502 480	2502 240		Design issue fee	
1503 640	2503 320		Plant issue fee	
1460 130	1460 130		Petitions to the Commissioner	
1807 50	1807 50		Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180		Submission of Information Disclosure Stmt	
8021 40	8021 40		Recording each patent assignment per property (times number of properties)	
1809 770	2809 385		Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385		For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385		Request for Continued Examination (RCE)	385
1802 900	1802 900		Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 860)

SUBMITTED BY

Name (Print/Type)	James E. Butler	Registration No. (Attorney/Agent)	40931	Telephone (858) 526-5250
Signature		Date	02/11/2004	

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-0100 and select option 2.

COPY

PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Art Unit	1652
Attorney Docket No.	1140-2

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Deposit Account Number

50-0661

Deposit Account Name

Diversa Corporation

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☒ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

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FEE CALCULATION (continued)**3. ADDITIONAL FEES**

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Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 860)

SUBMITTED BY

(Complete if applicable)

Name (Print/Type)	James E. Butler	Registration No. (Attorney/Agent)	40931	Telephone	(858) 526-5250
Signature		Date	02/11/2004		

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Docket No. 1140-2
09/375,605

Patent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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FEB 11 2004

OFFICIAL

RESPONSE UNDER 37 C.F.R. 1.111

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

Sir:

In response to the Office action dated August 12, 2003, Applicant respectfully submits the following amendments and remarks in connection with the above-identified application.

Amendments to the Claims are reflected in the listing of claims beginning on page 2 of this response.

Remarks begin on page 5 of this response.